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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/938,528	08/27/2001	Koji Arita	740-819-634	2800
22204 7.	590 12/22/2004		EXAMINER	
NIXON PEABODY, LLP 401 9TH STREET, NW			BLUM, DAVID S	
SUITE 900	221, 1444		ART UNIT	PAPER NUMBER
WASHINGTON, DC 20004-2128			2813	

DATE MAILED: 12/22/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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Supplemental	Application No.	Applicant(s)	_ <del></del>
Notice of Allowability	09/938,528	ARITA ET AL.	
Notice of Allowability	Examiner	Art Unit	
·	David S Blum	2813	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate comm IGHTS. This application is:	n this application. If not include unication will be mailed in due	ed course. <b>THIS</b>
<ol> <li>This communication is responsive to 11/20/03.</li> <li>The allowed claim(s) is/are 1.4 and 5.</li> <li>The drawings filed on 20 November 2003 are accepted by</li> <li>Acknowledgment is made of a claim for foreign priority under a) All b) Some* c) None of the:         <ol> <li>Certified copies of the priority documents have</li> <li>Certified copies of the priority documents have</li> <li>Copies of the certified copies of the priority documents have</li> <li>Copies of the certified copies of the priority documents have</li> <li>Acknowledgment is made of a claim for domestic priority under reference was included in the first sentence of the specification of the foreign language provisional at the first sentence of the specification or in an Application</li> </ol> </li> </ol>	nder 35 U.S.C. § 119(a)-(d)  be been received.  be been received in Application cuments have been received  nder 35 U.S.C. § 119(e) (to ation or in an Application Da application has been receive  nder 35 U.S.C. §§ 120 and/	on No  d in this national stage applicat  a provisional application) since ta Sheet. 37 CFR 1.78. d.	a specific
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of 7.   A SUBSTITUTE OATH OR DECLARATION must be submitted.	this application. THIS THR	REE-MONTH PERIOD IS NOT	EXTENDABLE.
INFORMAL PATENT APPLICATION (PTO-152) which give  8.  CORRECTED DRAWINGS (as "replacement sheets") mus  (a) including changes required by the Notice of Draftspers  1) hereto or 2) to Paper No  (b) including changes required by the proposed drawing of (c) including changes required by the attached Examiner'  Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the	es reason(s) why the oath of st be submitted. son's Patent Drawing Review correction filed, which is Amendment / Comment of .84(c)) should be written on the	r declaration is deficient.  w ( PTO-948) attached  h has been approved by the Extrinity the Office action of Paper Note the drawings in the front (not the	kaminer. lo
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT FOR T</li> </ol>	sit of BIOLOGICAL MATI HE DEPOSIT OF BIOLOGI	ERIAL must be submitted. N CAL MATERIAL.	lote the
Attachment(s)			
1☐ Notice of References Cited (PTO-892)	5 ☐ Notice of Info	ormal Patent Application (PTO-	152)
2☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6☐ Interview Su	mmary (PTO-413), Paper No	
3 Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No	i), 7□ Examiner's A	Amendment/Comment	
4☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	8⊠ Examiner's S 9⊡ Other	Statement of Reasons for Allow	ance
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This action is in response to a request for clarification filed 3/5/04.

The following corrects a typographical error.

## Reasons for Allowance

- 1. Claims 1 and 4-5 are allowed.
- 2. The following is an examiner's statement of reasons for allowance:

Claim 1 contains the limitation for forming a semiconductor device where an embedded layer is formed on a second insulating layer so that an isolation groove (trench) is filled and then a third isolation layer is formed that continuously covers at least two element isolation grooves and the region other than the element formation region (as claimed, a region between two isolation grooves), and remains so in the completed device (support for this is shown on pages 24 (line 24) to 25 (line 8) of the instant specification.). This limitation, in combination with the other limitations of claim 1 is not taught or suggested by the prior art of record. Razouk (US005581110A) forms a third isolation layer is formed and continuously covers over at least two element isolation grooves and the region other than the element formation region, but Razouk etches the third layer back so that it covers only the isolation groove and a small region outside the groove. The layer no longer extends over the non-element formation region. Bajor (US 5,504,033) etches back the third layer so that it also is only a cap over the isolation groove.

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Claims 4-5 are allowed as being properly dependent upon allowed claim 1.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to David S. Blum whose telephone number is (703)-306-9168 (after approximately 02/05/04 (7571-272-1687) and e-mail address is David.blum@USPTO.gov .

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead Jr., can be reached at (703)-308-4940. Our facsimile number all patent correspondence to be entered into an application is (703) 872-9306. The facsimile number for customer service is (703)-872-9317. Our receptionist's number is (703)-308-0956.

David S. Blum

December 21, 2004